

**ERRATA SHEET FOR THE FIRST, SECOND AND THIRD PRINTING OF  
ANSI/ASHRAE/USGBC/IES STANDARD 189.1-2009  
Standard for the Design of High-Performance Green Buildings  
Except Low-Rise Residential Buildings**

**March 8, 2018**

The corrections listed in this errata sheet apply to ANSI/ASHRAE/USGBC/IES Standard 189.1-2009. The first printing is identified on the outside back cover as “ISSN 1041-2336 Product Code: 86602 12/09”, the second printing as “ISSN 1041-2336 Product Code: 86602 4/10”, and the third printing as “ISSN 1041-2336 Product Code 86602 4/10 *Errata noted in the list dated 6/17/10 have been corrected.*”. The shaded items have been added since the previously published errata sheet dated January 27, 2012 was distributed. Items identified with an asterisk “\*” have already been corrected in the third printing.

**NOTICE:** ASHRAE now has a list server for Standing Standard Project Committee 189.1 (SSPC 189.1). Interested parties can now subscribe and unsubscribe to the list server and be automatically notified via e-mail when activities and information related to the Standard is available. To sign up for the list server please visit **Project Committee List Servers for Standard** on the Technology / Standards section of the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/project-committee-list-servers>.

**Page(s)   Erratum**

- 10\***   **Section 3.2 Definitions.** Change the definition of *soil gas retarding system* on page 10 as follows:  
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

*soil gas ~~retarder~~retarding system:* a combination of measures that retard vapors in the soil from entering the occupied space.

- 15**   **5.3.3.2 Backlight and Glare.** In item b of Section 5.3.3.2 change “luminaries” to “luminaires”.

- 15**   **5.3.3.3 Uplight.** In item a of Section 5.3.3.3 change “luminaries” to “luminaires”.

- 17\***   **Section 5.4.1.1 Effective Pervious Area for All Sites.** Change the Exceptions to Section 5.4.1.1 as follows:  
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

**Exceptions:**

1. The effective pervious surface is allowed to be reduced to a minimum of 20% of the entire *site* if 10% of the average annual rainfall for the entire *development footprint* is captured on *site* and reused for *site* ~~water use~~ or building water use.
2. The effective pervious surface is not required if 50% of the average annual rainfall for the entire *development footprint* is captured on *site* and reused for *site* ~~water use~~ or building water use.
3. Locations with less than 10 in. (250 mm) of average annual rainfall ~~per year~~.

4. *Building projects on a brownfield site.*

- 17\* **Section 5.4.1.2 Greenfield Sites.** Change the **Exception to 5.4.1.2(b)** as follows:  
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

**Exception to 5.4.1.2(b):** Locations with less than 10 in. (250 mm) of average annual rainfall ~~per year~~.

- 22\* **Section 7.3.2 On-Site Renewable Energy Systems.** In the Exception to Section 7.3.2 change the units from “4.0 kW/m<sup>2</sup>·day” to “4.0 kWh/m<sup>2</sup>·day”.

- 23\* **Section 7.4.1.1 On-Site Renewable Energy Systems.** In Exception 1 to Section 7.4.1.1 change the units from “4.0 kW/m<sup>2</sup>·day” to “4.0 kWh/m<sup>2</sup>·day”.

- 26\* **Section 7.4.3.12 Automatic Control of HVAC and Lights in Hotel/Motel Guest Rooms.** In the first sentence of Section 7.4.3.12 add a comma after “lighting” as follows:  
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

**7.4.3.12 Automatic Control of HVAC and Lights in Hotel/Motel Guest Rooms.** In hotels and motels with over 50 guest rooms, the lighting, switched outlets, television, and HVAC equipment serving each guest room shall be automatically controlled such that the lighting, switched outlets, and televisions will be turned off and the HVAC setpoint raised at least 5°F (3°C) in the cooling mode and lowered at least 5°F (3°C) in the heating mode whenever the guest room is unoccupied.

- 27\* **Section 7.4.6.1 Lighting Power Allowance.** Change the first sentence of Section 7.4.6.1 as follows:  
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

**Section 7.4.6.1 Lighting Power Allowance.** The *lighting power allowance* shall be a maximum of 0.9 multiplied by the values determined in accordance with Sections 9.5 and 9.6 of ANSI/ASHRAE/IESNA Standard 90.1. This requirement supersedes the requirements in Sections 9.5 and 9.6 of ANSI/ASHRAE/IESNA Standard 90.1.

- 91 **Table C-9 (Superseded Table 6.8.2A in ANSI/ASHRAE/IESNA Standard 90.1) Minimum Duct Insulation R-Value<sup>a</sup> Cooling and Heating Only Supply Ducts and Return Ducts (SI).** In Table C-9 change “R-10” to “R-1.76” in three places (Duct Location-Ventilated Attic Climate Zone 8 and Duct Location-Unvented Attic Above Insulated Ceiling Climate Zones 1 and 2) and change “R-1.9” to “R-0.33” in one place (Duct Location - Exterior Climate Zone 7, 8).

- 104\* **Exceptions to Section D3.1.1 Baseline HVAC System Type and Description.** Change the numbering for exception 3 to Section D3.1.1 on page 104 as follows:  
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

~~4.3-~~ For laboratory spaces with a minimum of 5000 cfm (2500 L/s) of exhaust, use system type 5 or 7 that reduce the exhaust and makeup air volume to 50% of design values during unoccupied periods. For all-electric buildings, the heating shall be electric resistance.

- 115 **Informative Appendix G – Informative References.** Make the following correction to the

reference in Informative Appendix G:

(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

Reference	Title	Section
<b>GREENGUARD Environmental Institute</b> 2211 Newmarket Parkway, #110 Marietta, GA 30067 1-678-444-4055 <a href="http://www.greenguard.org">www.greenguard.org</a>		<u>8.4.2, 8.5.2, Appendix E 8.42, 8.52</u>